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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/581,355	01/18/2007	Ian Powlesland	P08945US00/DEJ	8470
881 7590 12/12/2007 STITES & HARBISON PLLC 1199 NORTH FAIRFAX STREET			EXAMINER	
			NOORI, MAX H	
SUITE 900 ALEXANDRIA	A. VA 22314		ART UNIT	PAPER NUMBER
	· · ·		2855	
			MAIL DATE .	DELIVERY MODE
			12/12/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
Office Action Summany	10/581,355	POWLESLAND ET AL.			
Office Action Summary	Examiner	Art Unit			
	Max Noori	2855			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of the strength of the may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period value of the statutory period value of	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be the street will apply and will expire SIX (6) MONTHS from the application to become ABANDON	N). imely filed m the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
3) Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pr				
Disposition of Claims					
 4) Claim(s) 1-28 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) 1-15 is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) 16-28 is/are objected to. 8) Claim(s) are subject to restriction and/or 	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original transfer access and the correction of the original transfer access and the correction of the original transfer access and the correction of the	epted or b) objected to by the drawing(s) be held in abeyance. So ion is required if the drawing(s) is old	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119		•			
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of the priority documents.	s have been received. s have been received in Applicatity documents have been receiv (PCT Rule 17.2(a)).	tion No red in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 1307	4) Interview Summan Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	Pate			

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1. Claim1-2, 5, 7, 9-11, 13-15 are rejected under 35 U.S.C. 102(b) as being anticipated by August.

Regarding claims 1, 12, 15, August, discloses a method of manufacturing a piezoelectric, pressure sensor with features of the claimed invention including a silicon strain sensing element (element 202) which includes a various portions (see claim 21), and has a plurality of piezoresistor (see col. 2, line 46). The deformation of aid portion can extends or bends subjecting the piezoresistors to compression and to tension thereby inducing a change in relative resistance of said piezoresistors (see claim 20).

Regarding claim 2, August shows curved silicon member (see, for example figures 4 and . 5).

Regarding claims 5, 7, 9-11, August shows plurality of piezoresistors.

Regarding claims 13-14, the strain gauge resistors are generally arranged in a Wheatstone bridge (see for example, col. 2, line 53).

Claim Rejections - 35 USC § 103

Application/Control Number: 10/581,355

Art Unit: 2855

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

Page 3

having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the

manner in which the invention was made.

3. Claims 3-4, 6, 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over August

August shows a generally a square shape for the sensing element, however, depending

on the specific intended use, the element can assume various shapes. Therefore, it would have

been obvious for a skilled artisan at the time of the invention to modify August to provide for

any form and shape, in order to be able to use the system in any desired configuration of an

intended application.

4. Claims 16-28 are objected to (due to specific arrangements of the tethers), as being

dependent upon a rejected base claim, but would be allowable if rewritten in independent form

including all of the limitations of the base claim and any intervening claims.

5. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Max H. Noori whose telephone number is (571) 272-2185. The

examiner can normally be reached on Tuesday-Friday from 8:00 AM to 6:00 P.M.

Any inquiry of a general nature or relating to the status of this application should be

directed to the Group receptionist whose telephone number is (571) 272-2800. The fax phone

Art Unit: 2855

number for the organization where this application or proceeding is assigned is 703-872-9306. The central fax number is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MHN

Friday, December 07, 2007

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